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Picat Verification Test (Latest 2023/ 2024) | Questions and Verified Answers| Grade A

Q: As piston P moves up in the direction shown, lever Q?

Answer:
Does not move

Q: Four weights are tied together and hung from the ceiling. What will be the tensions in the cord at the point labeled?

Answer:
60 pounds

Q: What would you tell the person who is trying to loosen the rusty nut with the wrench?

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Answer:
Move your hand farther from the nut

Q: A car stops suddenly. Why are the passengers thrown forward against their seat belts?

Answer:
Terminal velocity

Q: Why are hoops closer together near the bottom of the tank?

Answer:
Water pressure pushing against the sides of the tank is greater near the bottom

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Q: It is true that frictional forces?

Answer:
Always oppose forces producing motion

Q: Crewtrifrugal Force is the?

Answer:
Outward force caused by rotation

Q: In this pulley system, what force must be applied to balance the 10 pound weight

Answer:
10 lbs

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Q: The joint at B contains a pin so that the ball can move up and down. If the axle BC rotated faster, angle X will?

Answer:
Decrease

Q: The surface.... if piston A is pushed down 6 inches, how far will piston B move up?

Answer:
3 inches

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Q: The spring pulls the left end of the lever against the cam. As the cam makes four rotations, how many times will the right end of the lever move up and down?

Answer:
4

Q: Which of the following objects has the most structural strength?

Answer:
A

Q: A definition of a vacuum is?

Answer:
The absence of matter

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Q: If 60 pounds of the force must be applied to the valve for it to open, how much upward force must push rod X ,apply for the valve to open?

Answer:
40 lbs

Q: At what altitude is atmospheric pressure the greatest?

Answer:
Sea level

Q: Fiction is the force that?

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Answer:
Opposes motion between 2 surfaces

Q: Which of the following is a renewable resource?

Answer:
peanut oil

Q: Which of the following reproduce by spawning?

Answer:
fish

Q: What do a hydrogen and oxygen molecule have in common?

Answer:
Their size

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Q: The filament in an electric lightbulb is made of?

Answer:
Tungsten

Q: When scientists measure a liquids resistance to flow they are measuring?

Answer:
Viscosity

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